This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN 50289-4-7:2008

# "Communication cables - Specifications for test methods -- Part 4-7: Environmental test methods - Damp heat, steady state"

© NSAI 2008 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

# I.S. EN 50289-4-7:2008

*Incorporating amendments/corrigenda issued since publication:*

| *This document replaces:* | *This document is based on:* EN 50289-4-7:2008 | *Published:* 31 January, 2008 |
|---|---|---|

| This document was published under the authority of the NSAI and comes into effect on: 9 July, 2009 | ICS number: 33.120.10 |
|---|---|

**NSAI**
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W **NSAI.ie**

**Sales:**
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

**Price Code:**
**D**

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.



EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 50289-4-7

January 2008

ICS 33.120.10

English version

# Communication cables - Specifications for test methods - Part 4-7: Environmental test methods - Damp heat, steady state

Câbles de communication - Spécifications des méthodes d'essais - Partie 4-7: Méthodes d'essais d'environnement - Chaleur humide, essai continu

Kommunikationskabel - Spezifikationen für Prüfverfahren - Teil 4-7: Umweltprüfverfahren - Feuchte Wärme, konstant

This European Standard was approved by CENELEC on 2007-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

© 2008 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Ref. No. EN 50289-4-7:2008 E

This is a free page sample. Access the full version online.



## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50289-4-7 on 2007-09-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2008-09-01

- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-09-01

This European Standard has been prepared under the European Mandate M/212 given to CENELEC by the European Commission and the European Free Trade Association.

_____

This is a free page sample. Access the full version online.



# Contents

**1 Scope** ..... **4**

**2 Normative references** ..... **4**

**3 Definitions** ..... **4**

**4 Test methods** ..... **4**

4.1 Equipment ..... 4
4.2 Test sample ..... 4
4.3 Procedure ..... 5
4.4 Requirements ..... 6
4.5 Details to be specified ..... 6

**5 Test report** ..... **6**

This is a free page sample. Access the full version online.



## 1 Scope

This Part 4-7 of EN 50289 details the method of test to determine the stability of transmission performance of a finished cable used in analogue and digital communication systems when submitted to damp heat steady state which may occur during use.

It is to be read in conjunction with Part 4-1 of EN 50289, which contains essential provisions for its application.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

| | | |
|---|---|---|
| EN 50289-4-1 | 2001 | Communication cables - Specifications for tests methods – Part 4-1: Environmental test methods - General requirements |
| EN 50290-1-2 | 2004 | Communication cables – Part 1-2: Definitions |
| EN 60068-2-14 | 1999 | Environmental testing – Part 2: Tests - Test N: Change of temperature (IEC 60068-2-14:1984 + A1:1986) |

## 3 Definitions

For the purposes of this document, the definitions of EN 50290-1-2 apply.

## 4 Test methods

### 4.1 Equipment

a) Appropriate transmission measuring apparatus for determination of changes in transmission performance.

b) Climatic chamber:

- the climatic chamber shall be of a suitable size to accommodate the sample and its temperature shall be controllable to remain within ± 3 K of the specified testing temperature. It must incorporate means of admitting water vapour to, or generating water vapour within. One example of a suitable chamber is given in Clause 2, test Nb, of EN 60068-2-14.

### 4.2 Test sample

The sample shall be of sufficient length as indicated in the relevant cable specification to achieve the desired accuracy.

In order to gain reproducible values, it may be necessary for the cable sample to be brought into the climatic chamber as a loose coil or on a reel.

SAI GLOBAL

This is a free preview.  Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation